

For Research Use Only

Recombinant Mouse CD68 protein (His Tag)



Catalog Number: Eg0787

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Mouse CD68 protein Asp21-Ser291 (Accession# P31996-1) with a His tag at the C-terminus.

GeneID:

12514

Accession:

P31996-1

Predicted Molecular Mass:

29.6 kDa

SDS-PAGE:

60-90 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD68 is a 110 kDa transmembrane glycoprotein widely expressed in monocyte cell types, such as macrophages, microglia, and osteoclasts. It is located at the lysosome and plasma membrane and is essential in various physiological and pathological processes, including atherosclerosis formation, inflammation and auto-immunity, bone-resorbing promotion, and tumor progression. It participates in the cellular response to lipopolysaccharide/oxidized low-density lipoprotein particle stimulus and negative regulation of dendritic cell antigen processing and presentation.

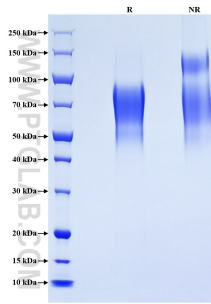
References

1. C L Holness, et al. (1993) *Blood*. 81(6):1607-1613.
2. Maria C de Beer, et al. (2003) *J Lipid Res*. 44(4):674-685.
3. Li Song, et al. (2011) *J Lipid Res*. 52(8):1542-1550.
4. Jason W Ashley, et al. (2011) *PLoS One*. 6(10):e25838.
5. Gunnar Steinert, et al. (2014) *Cancer Res*. 74(6):1694-1704.
6. Giuseppe Troiano, et al. (2019) *Oral Oncol*. 93:66-75.

Synonyms

CD68, CD68 antigen, gp110, Scard1

Selected Validation Data



Purity of Recombinant Mouse CD68 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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